

ABSTRACT

The present invention relates generally to decellularized extracellular matrix of conditioned body tissues. The decellularized extracellular matrix contains a biological material, preferably vascular endothelial growth factor (VEGF), produced by the conditioned
5 body tissue that is in an amount different than the amount of the biological material that the body tissue would produce absent the conditioning. The invention also relates to methods of making and methods of using said decellularized extracellular matrix. Specifically, the invention relates to treating defective, diseased, damaged or ischemic cells, tissues or organs in a subject by administering, injecting or implanting the decellularized extracellular matrix
10 of the invention into a subject in need thereof. The invention is further directed to a tissue regeneration scaffold for implantation into a subject inflicted with a disease or condition that requires tissue or organ repair, regeneration and/or strengthening. Additionally, the invention is directed to a medical device, preferably a stent or an artificial heart, having a surface coated or covered with the decellularized extracellular matrix of the invention or
15 having a component comprising the decellularized extracellular matrix of the invention for implantation into a subject, preferably a human. Methods for making the tissue regeneration scaffold and methods for manufacturing a coated or covered medical device having a component comprising decellularized extracellular matrix of conditioned body tissues are also provided.